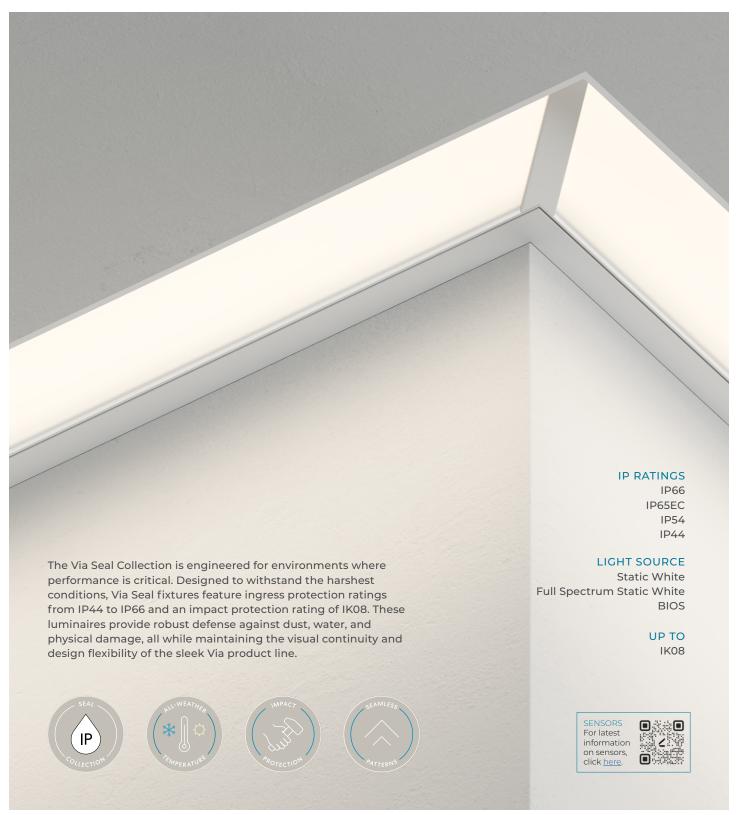
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Project:	
-	
Туре:	

Order Guide

LUMINAIRE ID	DISTRIBUTION	ENVIRONMENT 1	ОРТІС	LIGHT SOURCE 3	CRI
	D		EPDO		
V3SEALPERPATL - Via 3 Seal Perimeter Pattern Level	D - Direct	IP66 - IP66-Rated IP65PEC - IP65-Rated Electrical Components	EPDO - Environmentally	SW - Static white FS - Full spectrum static white	80CRI ⁵ - 80+ CRI 90CRI ^{5,6} - 90+ CRI
V3SEALPERPATS - Via 3 Seal Perimeter Pattern Shallow V3SEALPERPATD - Via 3		IP54 ² - IP54-Rated IP44 ² - IP44-Rated ¹ See page 5 for more information on the features and	Protected Direct Optic	BIOSST 4 - BIOS Biological Static BIOSDY 4 - BIOS Biological Dynamic BIOSTU 4 - BIOS Biological Tunable	95CRI 7 - 95+ CRI SNot available with full spectrum. Not available with BIOS.
Seal Perimeter Pattern Deep		installation details for each environment option. ² Fixture must be installed with direct lens facing down.		³ Chromawerx SOLA and DUO also available. Consult factory for RGBW. ⁴ See page 8 for details.	Only available with full spectrum.

LUMEN PACKAGE	COLOR TEMP.	PATTERN LENGTH	CORNER TYPE 12	VOLTAGE
500LMF - Low output 500 Im/ft 750LMF * - Medium output 750 Im/ft 1000LMF * - High output 1000 Im/ft *Not available with BIOS. *Not available with full spectrum.	27K 10 - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 50K 10 - 5000K	##FT##IN(#X#FT#IN-#X#FT#IN) " - ##FT##IN: total nominal length of pattern in feet and/or inches #X: quantity of each section #FT#IN: nominal length of each section in feet and/or inches Continuous runs: lengths over 12'	#LEVI2C(A##) - 2-way leveled inside corner #LEVO2C(A##) - 2-way leveled (A90) - (A##) 1 Custon outside corner **Specify quantity (#) and angle (A##) for each required corn If more than one option is specified, separate codes with a 1LEVI2C(A60)+2LEVO2C(A90). **Minimum angle is 45°.	120V - 120V 90° 277V - 277V UNV - 120V-277V 347V 4 - 347V 14 Advisor by the Di
		™Minimum 2'.		

DRIVER 15	ELECTRICAL	ELECTRICAL SECTIONS (optional) ^{22, 23}
D1 - 1% O-10V	1C - 1 circuit	#EC## ²⁴ - Emergency-powered section
ELV 16 - ELV 120V	#MC ¹⁸ - Multi circuit	#NL## ²⁴ - Night light section
TRI 16 - TRIAC 120V	EC - Emergency-powered fixture	#DL## ²⁴ - Daylight section
DA 17 - DALI	NL - Night light fixture	#GTD## ^{24, 25, 26, 27} - Generator transfer device section
LDE1 17 - Lutron Hi-lume 1% Eco	DL - Daylight fixture	#EMB ^{26, 27, 28, 29} - Emergency battery
ELD1 - eldoLED 1% ECOdrive 0-10V	GTD 19, 20, 21 - Generator transfer device fixture	NA - None
ELDO - eldoLED 0.1% SOLOdrive 0-10V		
RLTD10 - Low-temperature 10% 0-10V	18 Specify total number of circuits (#), including any	²² Specify with multi circuit (#MC) electrical option only.
·	required for electrical section options. Provide	²³ Provide drawing or layout specifications. Consult factory for other configurations.
¹⁵ See page 5 for driver temperature ranges.	drawing or layout specifications. Minimum 4' section	Default section length is 4'.
¹⁶ Available with 120V only.	per circuit.	²⁴ Specify quantity (#), and section length in inches (##).
¹⁷ On-site commissioning is required.	¹⁹ Minimum 4' fixture. ²⁰ Not available with 347V.	²⁶ Minimum 4' section. ²⁶ Not available with 347V.
	2) Not available for environments where the ambient	27 Not available with 347 v. 27 Not available for environments where the ambient temperature falls below 0°C (32°F).
	temperature falls below 0°C (32°F).	28 Specify quantity (#). All batteries will be on the same circuit. Each battery powers a
	compositions seriow of C (32 1).	4' section.
		²⁹ Only available with IP54 and IP44.

POWER FEED	MOUNTING	FINISH	OPTIONS 30
TF - Top feed EF - End feed	TG9 - Tegular 9/16" TG15 - Tegular 15/16" TB9 - T-bar 9/16" TB15 - T-bar 15/16" ST - Screw slot T-bar DTR - Trim DTL - Trimless DMF - Drywall mud flange	W - Matte white AL - Aluminum WA - White antimicrobial Silverwerx	NEF 31, 32 - No end flanges FEP 32 - Flush end plates CRF - Corrosion-resistant finish GGK - Grid gasket NA - None 30 Separate codes with a "+" if more than one is specified. 31 For wall-to-wall installations. 32 See page 7 for details.

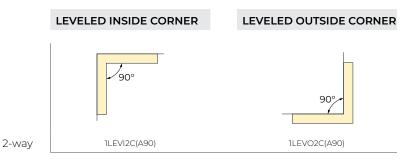


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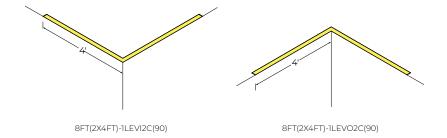
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Pattern Layout

CORNER TYPES



EXAMPLES

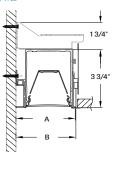


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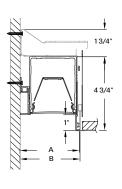
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Dimensions

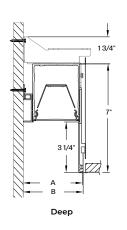




Level



Shallow



T-BAR	FIXTURE WIDTH A	TO CENTER OF T-BAR B
TB9/TG9	3 27/32"	3 7/8"
TB15/TG15	3 15/16"	4"
ST	3 27/32"	3 7/8"





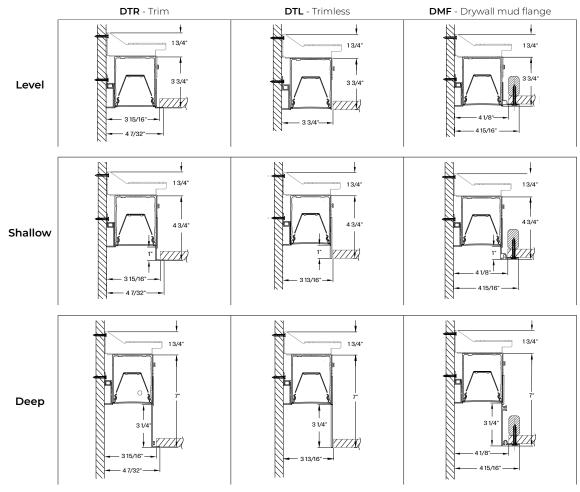


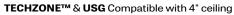
TG9 - Tegular 9/16"

ST - Screw slot T-bar

TG15 - Tegular 15/16"

DRYWALL







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Environment Options

	Direct					
IP66	IP65EC Electrical Components	IP54	IP44			
Dust tight High water resistance	Dust tight Moderate water resistance	Dust Water splash resistance	Particles larger splash resistance protected			
	OUT	DOOR				
Directly exposed to the elements	Moderate exposure to the elements	Under canopy, slightly exposed	Under canopy, not exposed			
	IND	OOR				
Wipe down application		Wipe down application				
Healthcare application Cleanroom application		Healthcare application				
	-lens gasket d cap gasket	lens gasket -internal end cap gasket				
External joiner gasket every 12' Continuous line of light over 12' Internal joiner gasket with soft shadow line every 12' Continuous line of light over 12' External joiner gasket with soft shadow line every 12' Ontinuous line of light over 12'						
Driver: in a sealed enclos Electrical connections: v						
LED boards: conformal of protection	coated for maximum					

Ambient Temperature Range based on driver selection					
LDE1 ELV/TRI DA/ELD1/ELD0 D1 RLTD10					
Minimum temperature:	0 °C / 32 °F	-10 °C / 14 °F	-20 °C / -4 °F	-30 °C / -22 °F	-40 °C / -40 °F
Maximum temperature:	mperature: 40 °C/104 °F				

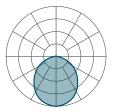
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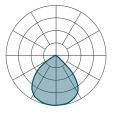
Photometrics

Values calculated based on a 4' fixture at 4000K and 80+ CRI.

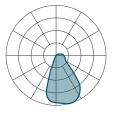
Shallow



W/FT	LM/W
4.9	101
7.6	98
10.5	94
	4.9 7.6



LM/FT	W/FT	LM/W
500	5.1	97
750	8	93
1000	11	90



LM/FT	W/FT	LM/W
500	5.3	94
750	8.2	91
1000	11.3	88

MULTIPLIER TABLE

Please follow the multiplier table to ensure correct lumen value. CCT and CRI, will change the lumen output.

Multiplier - CCT/CRI

ССТ	WATTS		LP	w
	80+ CRI 90+ CRI		80+ CRI	90+ CRI
2700K	1.06	1.27	0.94	0.79
3000K	1.02	1.23	0.98	0.81
3500K	1.00	1.19	1.00	0.84
4000K	1.00	1.18	1.00	0.85
5000K	0.95	1.12	1.05	0.89

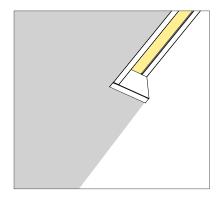


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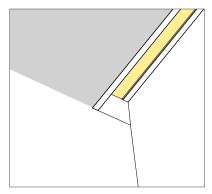
SEALWERX SERIES

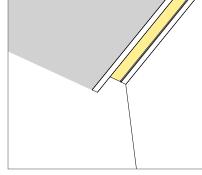
End Configurations

STANDARD



OPTIONS





NEF - No end flanges

FEP - Flush end plates

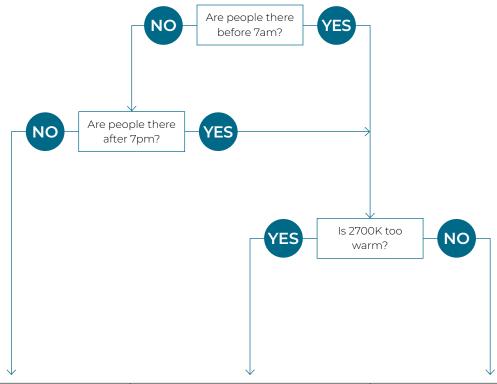


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BIOS

Three BIOS Circadian LED solutions are offered – Biological Static, Biological Dynamic, and Biological Tunable. Use the decision tree below to identify when and where to use BIOS Wellness LED Lighting Solutions.



*	•	*
Biological Static BIOSST	Biological Dynamic BIOSDY	Biological Tunable BIOSTU
No CCT change when dimmed	500K shift when dimmed	Dims to 2700K
Daytime solution	Daytime + evening solution	Daytime + evening solution
Spaces in operation during daytime hours, between 7am and 7pm	Spaces in operation overnight, after 7pm and before 7am, and when CCT color shift in the evening is not preferred	Suitable for spaces in operation overnight, after 7pm and before 7am, and where people do not sleep (CCT color shift in the evening is preferred)
E.g. offices, medical/dental offices	E.g. hospitals	E.g. offices, shiftwork
0 50 423 60 500 M0 900 403 600 700 140 700	Daytime	Daytime Full BIOS SkyBlue™ (490nm) Bio-Dimming™



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Technical Specifications

OPTIC

Environmentally Protected Direct Optic (EPDO)

The Environmentally Protected Direct Optic creates a seal that blocks debris and moisture, and withstands UV distortion and moderate impact. This extruded snap-in lens has a gasket to ensure proper sealing. The lens is 1/16" thick and made of frosted polycarbonate. Internally, white, side kicking reflectors guide the light through the lens. The EPDO suits moderate climate environments.

LIGHT SOURCE

Static white

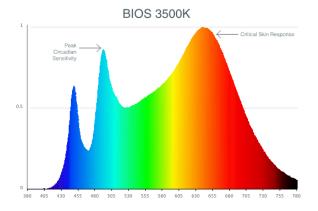
Custom linear array of mid-flux LEDs are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 2700K, 3000K, 3500K, 4000K, and 5000K with a minimum 80+ CRI and an option for 90+ CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

Full spectrum static white

The full spectrum LED option offers improved color particularly in the cyan region that is beneficial in both healthcare and circadian lighting strategies. The cyan region in full spectrum LED is richer at the 480 nm range.

BIOS

BIOS SkyBlue™ Technology is designed to provide the specific circadian stimulus to improve overall sleep quality, recovery during the night, and overall feelings of well-being. The non-visual light signals that stimulate our circadian system have peak intensity in the "sky blue" region. As the diagram below illustrates, BIOS SkyBlue technology shifts the peak LED spectral intensity (490 nm) to align better with the peak response of circadian stimulus. Also note the enhanced deepred (near 660 nm) spectrum.



Three BIOS solutions are offered: BIOS Biological Static (BIOSST), BIOS Biological Dynamic (BIOSDY), and BIOS Biological Tunable (BIOSTU). See page 8 for details.

WELL BUILDING STANDARD



WELL for Light: The WELL building standard focuses on light quality in several features. There are three categories that are fully attributed to the construction and features of a luminaire. In WELL V1, it's Feature 54 Circadian Lighting, Feature 55 Glare Control, and Feature 58 Color Quality. In WELL V2, it's Feature L03 Circadian Lighting, Feature L04 Glare Control, and Feature L07 Electric Light Quality.

This fixture meets Features:

- Feature 54 or L03 when BIOS or full spectrum is selected
- Feature 55 or L04 meets WELL glare category (c-d) (not applicable with 1000 lm/ft)
- Feature 58 or L07 when 90+ CRI is selected

All LED drivers used at Lumenwerx are deemed to have a low risk level of flicker, of 5% or less below 90Hz operational as defined by IEEE standard 1789-2015 LED.



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WELL for Mind: This luminaire meets WELL for mind as it is a human centric luminaire offering quality light, excellent color, and smooth optics. If any of these features are incorporated in a luminaire, it can improve the ability to focus, concentrate, and persist longer on a given task. This fixture harmoniously operates in a space to assist the mind.

For more information, please contact well@lumenwerx.com

PATTERN LENGTH

All individual sections are joined together onsite using the joiner kits provided. Lumenwerx joiner kits are extremely simple to work with in the field and result in a fixture that appears virtually seamless with no light leak at any connection.

TEMPERATURE VARIATION PROTECTION

The intergrated pressure equalization and moisture control GORE® protective vent allows air to flow while blocking water, dust, and contaminants. It reduces internal condensation, supports thermal stability, and preserves the fixture's sealed performance over time.



Location may vary.

ELECTRICAL

Factory-set, adjustable output current LED driver with universal (120-277 VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include Lutron Hi-Lume 1% Eco, eldoLED 1% ECOdrive 0-10V, eldoLED 0.1% SOLOdrive 0-10V, and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

PoE

Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, DUO (tunable white), QUADRO (RGBW), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

ELECTRICAL SECTION OPTIONS

Electrical section options are available for fixtures specified as multi circuit (#MC). With MC, specify the total number of circuits (#), including any circuits required for optional electrical sections. A drawing is required to specify the layout. Please consult factory for custom configurations.

Electrical sections

Options include emergency-powered light (#EC##), night light (#NL##), daylight (#DL##), and generator transfer device (#GTD##) sections. Specify the quantity (#), as well as the section length in inches (##).

Example 1: A 32' Direct fixture with two 8' emergency light sections on a second circuit.

Code: 2MC-2EC96

Example 2: A 24' Direct fixture with one 4' generator transfer device section.

Code: 1MC-1GTD48

Batterv

Each emergency battery (#EMB) powers a 4' section. All batteries will be on the same circuit. Specify the number of batteries (#) required. Factory installed long life, high temperature, maintenance-free Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. Minimum of 90 minutes operation, up to 1000 lumens per 4' (25°C) emergency lighting output and recharge time of 24 hours. Suited for ambient temperatures of 0°C (32°F) to 55°C (131°F).

Generator Transfer Device (GTD)

A UL924 listed shunt relay that can bypass both line voltage (120-277V) and 0-10V dimming signal. Suited for ambient temperatures of 0°C (32°F) to 60°C (140°F).

MOUNTING

Recessed fixtures can be mounted into exposed or concealed T-bar or tegular ceiling, as well as in ceilings with trim, trimless, or mud flange options. Via 3 Seal Perimeter is compatible with $4^{"}$ Armstrong TechzoneTM & USG ceilings.

FINISH

Interior: 95%, reflective matte powder coated white paint Exterior: Powder-coat paint in matte white or aluminum. Optional antimicrobial finish.



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CONSTRUCTION

Housing: Extruded aluminum up to 90% recycled content

Interior brackets: Die-formed cold rolled steel

Gaskets: closed-cell silicone foam

Reflectors: Die-formed cold rolled sheet steel, 95% reflective

matte white painted

Recessed flanges: Extruded aluminum up to 90% recycled

content

Mud flange: Extruded aluminum up to 90% recycled content

End cap: Die-cast aluminum

Mounting bracket: Aluminum bracket with stainless steel PEM

studs and sealing washers

Grid gasket (GGK option): 1/16" closed-cell silicone foam, assures

a better seal between the fixture and the grid

CERTIFICATIONS

ETL: IP44-Rated environment option is rated for dry/damp locations. IP66-Rated, IP65-Rated Electrical Components, and IP54-Rated environment options are ETL Wet Listed. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0. During the installation of Wet Listed fixtures, the contractor is responsible for properly sealing all mounting and electrical connection points.

IC rated: Suitable for direct contact with insulation

WARRANTY

Lumenwerx provides a five-year limited warranty on electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.

